

Modern Plastics

Editorial Index, Volume 48

January through December 1971

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How to use this index

This Modern Plastics Index is prepared as a cross-referenced guide to general, engineering, and technical features. It is arranged by materials, application areas, processing equipment and methods, and other pertinent subdivisions. In addition, many subjects are individually cross-referenced by one or more key words.

■ If you want to locate in one segment of the index all the important published information on, for example, **Epoxies**, **Building Applications**, or **Blow Molding**, locate the appropriate bold face headings, under which you will find the entire list.

■ If you are looking for a specific article dealing with a plastics material, a production method, and/or an application, it will be found cross-referenced under one or all of these areas.

■ If only the general theme of an article is known, you can quickly locate it by checking through the headings relating to that theme.

■ For added convenience in reference, the following keys in indexed items indicate the nature of the indexed article or the section of the magazine in which it appears: (pl) = Plasticscope; (nm) = New Materials; (eng) = Engineering Feature; (tech) = Technical Feature; (ma) = Machinery and Equipment; (tr) = Technical Review. Unkeyed items are of a more general nature.

Note: Every issue of Modern Plastics carries a number of timely news articles which are not considered as reference material and are not included in this Index. These include many Plasticscope announcements, Company News items, a calendar of Coming Events, Manufacturers' Literature, and Patents.



Modern Plastics

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Show highlights acrylics (pl): Jan 140

Lubricants, report on internal: Sep 70

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ABS cutter, Photon laser (ma): Aug 94
Bag slitting/emptying system, Stewart-Glapat (ma): Oct 189

Bag unloader, Littleford (ma): Dec 80
Bandsaw for rigid and semi-rigid foams, LeBrecht (ma): Jun 88
Bin discharge gate, Vibra Screw (ma): Jan 130

Bin dischargers, Acrison (ma): Oct 188
Blister pack, I-L form-fill-seal unit for (ma): Dec 78

Blow molding machine, Bekum fast-cycle (ma): Jul 78

Bottles up to 12,000 per hr., ADS for (pl): Dec 72

B&W with adiabatic extruders (ma): Mar 98

Hayssen single-head (ma): Jun 86

Kunststoffe exhibition of: Nov 54

PIS programmed parison extrusion (ma): Mar 100

Sidel compacts (ma): Jan 126

Solid-state controlled, Bekum (ma): May 92

Uniloy for lightweight containers (ma): May 96, Jun 78

USPM vertical extrusion (ma): Feb 84

Waldron-Hartig (ma): Jan 126

W&P scrap remaker (pl): May 88

Blown film line, Bielloni heavy-duty (ma): Feb 84

Bottle-cap liner, RF (ma): Mar 98

Bottle-leak detector, AF (ma): Mar 102

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Cable-joining injection molding unit, USUCC portable (ma): Sep 108

Chippers, PEE rotary (ma): Aug 94

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Compression and transfer molding — see under separate heading

Container lids, TIC in-line from extruding to printing: Aug 56

Containers, fluid-bed molding system for: Jan 90

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Conveyor for blow-molded bottles, Uniloy (ma): Oct 188

Die wipers, IMS injection-molder air-operated (ma): Jun 88

Discharge treaters, Corona (ma): Mar 100

Dry blender, SW&C (ma): May 96

Dry bulk hopper scale, DM&M (ma): Jan 128

Dryers, Bowen product fluid-bed type (ma): Dec 78

Deltech process air (ma): Oct 180

Gala pellet (ma): Oct 184

Rainville powder (ma): Oct 180

Encapsulator, Automachine (ma): Mar 98

Injection-molder, Hillard (ma): Nov 74

Injection unit for press, Hull (ma): Aug 86

Transfer-press, Bipel (ma): Jun 84

Clifton hydraulic (ma): Nov 74

Extruder dies attachable to screen changers, Sudbury (ma): Oct 189

Extruder filtration, FDI new unit for continuous (ma): Nov 72

Extruders, Black Clawson (ma): Mar 98

Compounding pipe, Anger (ma): Jun 84

Dual-extrusion system, MPM (ma): Nov 76

Egan vertical (ma): Aug 88

Extrudyne rigid profiles (ma): Jun 86

Foamed (pl): Aug 84

- High HDPE-sheet output, Davis Standard 6-in. for: Sep 52
Johnson 6-in.: *Ibid*
NRM 6-in.: *Ibid*
Welex 4-1/2-in.: *Ibid*
Hydraulically-driven, Extruders Inc. (pl): Jan 120
Kunststoffe exhibition of: Nov 54
Leesona textile yarn system (ma): Jan 126
Nelmor adjustable-plane: *Ibid*
NRM unitized (ma): Apr 124
PIS for PS foam sheet (pl): May 86
Sterling compacts (ma): Dec 76
Twin-screw, Cincinnati Milacron (pl): Aug 82
W&P with interchangeable screw components (ma): May 92
Extruder screen changer, Curtis high-capacity (ma): Jun 88
Heat-sensitive resins, PII usable for (ma): Jun 88
Midland-Ross automatic (ma): Nov 74
Extrusion-die cleaning system, Techne (ma): Aug 92
Feeder belt with electronic weighing, B.I.F. (ma): Oct 188
Film bonder, Roberts (ma): Mar 100
Film casting, BC chill-roll (ma): Sep 108
Foam-molding machines, European developments in (pl): Nov 80
Fellows converter for injection molders (ma): Jun 86
Hoover for large smooth-surface foam parts (pl): Jun 78
Koehring structural with shot sizes to 38 lb. (ma): Apr 124
Shot sizes to 100 lb. (ma): Sep 108
Kunststoffe exhibition of new: Nov 52
PMC high-speed thermoformer (pl): Mar 92, 98
PMC rapid EPS packaging (ma): Apr 124
W&P for structural (ma): Mar 98
Foams-splitting machine, LeBrecht bandknife (ma): Aug 94
Granulators, auger-fed IMS (ma): Jan 128
Beloit (ma): Aug 94
Auger-fed (ma): Jan 128
Dual-purpose, Abbe (ma): Jan 126
PMC shorty (ma): Apr 130
Scrap, R&A Plastics (ma): Feb 86
Soundproofed, G&W (ma): Aug 94
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Grinder, Beloit recycling (ma): Jul 80
FMB hot-melt portable (ma): Jul 80
Heating — see main heading *Heating and cooling equipment*
Hopper-dryer dewpoint and air-flow readouts, T-M (ma): Oct 184
Hopper loaders, Conair 1000 lb./hr. (ma): Dec 80
Foremost automatic vacuum (ma): Apr 128
Nelmor automatic (ma): Dec 80
Thoreson-McCosh multistation (ma): Apr 128
Hot knife, GE cordless (ma): Feb 86
Hot-stamper, Ackerman-Gould roll-leaf film (ma): Nov 76
Acromark solid-state (ma): Jul 84
DMC with automatic pressure adjustment (ma): Nov 76
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Large areas on tubes, Acromark for (ma): Nov 76
PDC foil (ma): Jul 84
Thermarker (ma): Sep 112
Wagner Engraving (ma): Oct 184
Humidity monitor, AAA on-line (ma): Sep 114
Ice point cell for reference temperature, Dynatech (ma): Oct 188
Imprinter, Ackerman-Gould roll-leaf (ma): Sep 112
Injection machines, Avnet compact (ma): Jan 126
Babcock & Wilcox for bottles (ma): Mar 98
BAM two-stage (ma): Jul 78
Bekum 1800 HDPE bottles (2 fl.oz.)/hr. (pl): Oct 170
BIP punched key-plate sequence programming (ma): Apr 128
Blow-molder converter, Rucker (pl): Nov 82
Brass Teledynamic (ma): Dec 76
Cincinnati Milacron high-speed (ma): Apr 126
Danson 25-ton (ma): Dec 78
Ex-Cell-O two-piece base (ma): Apr 128
Farrel with large daylight opening (ma): Oct 176
Fast-clamping 1000-ton, USI-Clearing: *Ibid*
Fellows with solid-state logic controls: *Ibid*
Giltech (ma): Feb 84
Hillard manual (ma): Jun 86
Horizontal thermoset, Stokes (ma): Sep 108
Impco 2500-ton (ma): Apr 126
Koehring for large elastomer parts (pl): Dec 70
Kunststoffe exhibition of new: Nov 53
Large modular, Beloit (ma): Jun 84
Litton potentiometer-controlled (ma): Apr 124
Lombard 110-oz. (ma): Mar 98
Morgan bench-type (ma): Jul 80
Moslo direct-drive (ma): Jul 78
MPM 6.7 -and- 10.5-oz. (ma): Apr 124
Newbury, 5.5-oz. (ma): Mar 98
Two-color (ma): Feb 84
New developments in: Sep 44
Premixes, American Cyanamid for (pl): Apr 120
Farrel: *Ibid*
George Seidl KG: *Ibid*
Lewis Welding & Engineering: *Ibid*
Litton: *Ibid*
Recycling, W&P (ma): Aug 86
Retractable tie bars, CM 3000-ton with (pl): Mar 94
Farrel 2000-ton: *Ibid*
Impco 2500-ton: *Ibid*
Rose compact (ma): Jan 126
Solid-state controls, Danson with (ma): Oct 180
Solid-state timer, CCC with (ma): Dec 78
Small parts to 1-oz., Avnet for (ma): Nov 76
Stokes 300-ton with molds 24 by 36" (ma): May 92
Molds 20 by 29-3/4" in 200-ton (ma): Dec 76
Van Dorn (pl): Jun 100
Hydraulic clamp (ma): Aug 86
Long clamp stroke (ma): Sep 108
Vertical, ESGO small (ma): Sep 108
Wheaton Industries (ma): Nov 74
Injection molding press, Dake air-operated (ma): Aug 88
Injection-mold pressure sensor, Control Process (ma): Feb 82
Injection press, Hillard (ma): Jul 80
RPE screw-fed with solid-state controls (ma): May 96
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Insulator Admiral urethane foam (ma): Jul 80
Machine loader, Butler (ma): Dec 80
Melt-pressure gage, Microdot extruder (ma): Aug 88
Metal detector/separator, Erico (ma): Dec 80
Foremost (ma): Oct 188
Metering, mixing, dispensing machines — see under separate heading
Mold finishing tool, D-M-E electric hand (ma): Jun 88
Mold-pressure indicator and transducer, GSE (ma): Mar 100
New developments, important: Apr 100
Pelletizer, WPC water ring (ma): Apr 130
Pellet screeners, Simpson (ma): Aug 94
Pipe/tube fabricators, Gatto (ma): Aug 94
Plasticator bimetallic-lined barrels, Bernex (pl): Jan 122
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Xaloy: *Ibid*
Pouching liquids, PMC form-fill-seal unit for (ma): Dec 78
Powder compaction system, PEE (ma): Feb 86
Precut for large scrap, IMS (ma): Jul 80
Production recorder, V-R (ma): Mar 102
PS-bead vacuum pre-expander, S-K (pl): Sep 102
PVC film printer, Halley four-color (ma): Sep 110
Resistance thermometers, Sostman platinum (ma): May 92
Roll salvager, Parkinson (ma): Feb 86
Rotating mold frame, MUDP (ma): Oct 189
Rotational molding — see under separate heading
Runner separator, Beloit automatic (ma): Feb 86
Sales 1970, record drop in: Apr 81
Scrap, Beloit recycling system for runner (ma): Jul 80
Sheet dicer, Envirotech (ma): Jan 128
Sheet forming machines, Engineering Development (ma): Jul 78
Hoffco for containers (pl): May 86
Johnson "black box" (pl): Feb 78
Koehring (ma): Jun 86
Kunststoffe exhibition of new: Nov 56
M-R industrial (ma): Aug 86
PIS for wide-mouthed containers (pl): May 86
Plasti-Vac industrial (ma): Dec 78
PMC high-speed (pl): Mar 92
Ridat roll-fed for webs to 51" wide (ma): Aug 88
Rotary, I.P.D. (ma): Dec 76
Solid-state controls, CMD with (ma): Oct 180
Web-overheating control, PMC with (ma): Oct 176
Silk-screen printer, MTS (ma): Nov 76
Softening-point tester, EME (ma): Sep 114
Static detector, Herbert (ma): Sep 112
Takeoff, Boulogny air-driven winder (ma): Jan 132
Coiler/boxer, C&K: *Ibid*
Extrusion, Gatto: *Ibid*
Molded parts, Rampe: *Ibid*
Pipe, Gatto (ma): Nov 78
Slitter/rewinder Dusenbery (ma): Nov 78

Stanford (ma): Jan 130
 Static eliminator, Lyttle (ma): Jan 132
 3M: *Ibid*
 Web, Lembo high-speed (ma): Jan 130
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 Temperature sensor, Alnor (ma): Feb 82
 Barber-Colman thermocouple connector (ma): Nov 76
 Gulton thermocouple (ma): Mar 100
 Harrell bayonet type (ma): Feb 84
 Honeywell multipoint pressure/temperature (ma): Aug 88
 Infrared noncontacting, Barnes (ma): Sep 112
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 TE digital (ma): Mar 102
 High-input impedance 6-point indicator (ma): Aug 88
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 Thermoformer clamp for sheet-size changes, P-V (ma): Jul 80
 Welders, FSC spin (ma): Apr 130
 Kamweld, hot-air (ma): Jun 88
 Three-temperature (ma): Feb 86
 MG for wide-pipe non-solvent section unions (ma): Jun 88
 Sealomatic electronic (ma): Feb 86
 Spin, Fastener Systems (ma): Apr 130
 Ultrasonic automated, Branson scan (pl): Oct 170
 Cavitron: *Ibid*
 Delta: *Ibid*
 Dukane: *Ibid*
 Pelorex 6000 aerosol bottles/hr.: *Ibid*
 Sonics & Materials (ma): Apr 130
 Untrasonics Systems (pl): Oct 170
 W&S automatic solvent for couplings (ma): Jun 88
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 Theory of RP (tr): Jun 132
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 Buoys, Navy recommends plastic (tr): Dec 114
 Marina undersea fuel pipes/land tanks of epoxy/glass: Jun 57
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 Modified kaolin upgrades properties (pl): Oct 28
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 Peroxyester activity altered by chemicals (tech): Nov 66
 Polyarylsulfones, new (nm): Sep 27
 Polybutadienes, Lithene Q (nm): Mar 30
 Polycondensate research, USSR (tr): Aug 122
 Price changes in (pl): Jan 140
 Production 1969-70 (tr): Jun 132
 Strapping, non-woven (nm): Feb 26
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 Thermoplastic PTMT used for pump housings (pl): Nov 89
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 Bin discharge gate, Vibra Screw (ma): Jan 130
 Bin dischargers, Acrison (ma): Oct 188
 Conveyor for blow-molded bottles, Uniloy (ma): Oct 188
 Dispensers, purge agent for (pl): Nov 28
 Dry bulk hopper scale, DM&M (ma): Jan 128
 Feeder belt/electronic weighing, B.I.F. (ma): Oct 188
 Hopper dryers, PMC automatic (ma): Dec 78
 Hopper loaders, Conair 1000 lb./hr. (ma): Dec 80
 Foremost automatic vacuum (ma): Apr 128
 Nelmor automatic (ma): Dec 80
 Thoreson-McCosh multistation (ma): Apr 128
 Machine loader, Butler (ma): Dec 80
 Metal detector/separator, Erico (ma): Dec 80
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 Systems, profits in: Jan 78
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 Implants, progress in (tr): Jul 106
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 Additive feeder, GSC low-rate (ma): May 96
 Applicator/mixer, DeVilbiss portable (ma): May 96
 Batch content weighing/control, Raven (nm): Jan 130
 Bin discharge gate, VSI (ma): Jan 130
 Color blender, Whitlock (ma): Sep 110
 Density measuring, Tecam (ma): Mar 102
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 PDC polyester resin (ma): Aug 92
 Dispensers, Funken gravimetric (ma): Dec 82
 Pyles hot-melt (ma): Jul 84

Rigid urethane foam, Fluidyne portable (ma): Aug 92
 Urethane elastomer metering, NAU electronic (ma): Jul 84
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 Water-extended polyester, AMS for (ma): Jul 84
 Dry blender, SW&C (ma): May 96
 Feeder, GSC low-rate additive (ma): May 96
 Glass-spray meter, Republic (ma): Jan 130
 Mixer, ECC epoxy compounds (ma): Dec 82
 IMS batch-type high-intensity (ma): Jan 128
 Pyles adjustable-ration (ma): Nov 78
 PVC continuous, W&P (ma): Jan 130
 Plastisol-producing systems, Day complete (ma): Aug 88
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 Thermal conductivity, Anacon (ma): Mar 102
 Urethane foam insulating machine, Admiral (ma): Jul 80
 Urethane foam machines, Urematic two-component (ma): Sep 110
 Urethane system, Hull (ma): Nov 78
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 Acrylic protects football pros (pl): Mar 112
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 Sawdust/acrylic building material (pl): Oct 198
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 Missile casing, glass/epoxy (pl): Sep 120
 Polysulfone battery cells: Apr 56
 Rifle barrel jacket, steel/epoxy (pl): Sep 120
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 Containers, fluid-bed system for: Jan 90
 Inserts, new line of (nm): May 30
 Moisture effect on thermoset flow (eng): Nov 60
 Mold protector, R&A (ma): Jun 86
 Mold-pressure monitoring (eng): Dec 58
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 Urethane coating interlocks in mold: Jul 30
Molding compounds — see also specific materials
 Moisture effect on flow of thermoset (eng): Nov 60
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 Concrete prototypes, large (pl): Aug 84
 Copper gauze cleans (nm): Sep 32
 Epoxy tooling for urethanes (pl): Aug 98
 Finishing tool, D-M-E electric hand (ma): Jun 88
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 Akromold Inc.: *Ibid*
 Alliance Mold: *Ibid*
 Atols Tool and Mold: *Ibid*
 Binder Tool and Mold: *Ibid*
 Capitol Engineering: *Ibid*
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 Indiana Die Cast Tool: *Ibid*

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 Modern Pattern & Plastics: *Ibid*
 J.B. Rath Co. Inc.: *Ibid*
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 Special Machine & Engineering: *Ibid*
 J.G. Tilp Inc.: *Ibid*
 Protector, R&A (ma): Jun 86
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 Filaments, -6/12 moves into (pl): Apr 24
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 Blister, PVC saves cost of: Jan 83
 Cans, 4500/hr. quart-size (pl): Mar 92
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 Containers, calendered: Feb 30
 Coated PE (pl): Jul 88
 Disposal data of new material for (pl): May 16
 Made from flat sheet (pl): Aug 82
 Multicavity injection machine for, Wheaton (ma): Nov 74
 Screen printers for large, DMC (ma): Oct 184
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 Wide-mouthed, new thermoform process for (pl): May 86
 Container tax passed, N.Y.C. plastics (pl): Aug 10, Nov 18
 Anti-tax court case won by SPI et al (pl): Dec 18
 Drum liners, PVC (pl): Sep 126
 Formed PS consumption: Apr 90
 Gasoline can standards (tr): Mar 130
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 Meat and spirits, new tests to speed PVC for: Sep 54
 National Packaging show, report on (pl): Jun 96
 Pails for 2-unit products (pl): Jan 138
 Pouching liquids, PMC form-fill-seal unit for (ma): Dec 78
 Produce shelf life, film for (tr): Nov 116

Proposed container taxes (pl): May 14
 Shipments, cushioning for (nm): May 29
 TPX-coated paperboard tested for frozen foods (pl): Nov 89

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 Hand-operated sprayer, Nordson (ma): Oct 184
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 Processing approaches: *Ibid*
 Processing methods, comparison of economics of: Apr 74

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 PVC Japanese (nm): Mar 33

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Consumption pattern, 1970: Jan 61, 67
 Injection-molding cycle times, reducing (eng): Oct 132
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 Records, PVC growth in: Apr 88

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Pipe, hose, tubes

Corrugated for soil conservation: Feb 48
 Fabricators to 24-in. diameter, Gatto (ma): Aug 94
 High-joint-strength HDPE pipe (pl): May 102
 High-strength pipe, glass/epoxy over PVC (pl): Jul 88
 PE pipe 36" carries waste (pl): Mar 111
 Pipe, growth in use of: Jan 88
 Pipe manufacture, cold blends cut costs of PVC (pl): Jul 72
 Pipe price-fixing denied (pl): Oct 198
 Pipe symposium, UK (tr): Apr 178
 PVC pipe poses profit problems: Nov 44
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 Takeoff unit, Gatto (ma): Nov 78
 Truck-boom tubing, pultrusion (pl): Mar 94
 Undersea epoxy/glass fuel pipes: Jun 57
 Worn iron gas mains renewed with PE pipe (pl): Aug 96

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 "Permanent" polyesters that are easier to process: Jul 42
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Processing wages (pl): Jul 20

Review of 1970, booklet on (tr): May 134

Sales and profits, 1971 vs. 1970 (pl): Sep 16

End users': *Ibid*

Manufacturers': *Ibid*

SPI Canada goes independent (pl): Nov 87

Training program (pl): Jul 88

U.S.S.R. plastics survey (tr): Mar 130

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 Electroless nickel bath (nm): Jun 26
 Electroless for nylons (pl): Apr 120
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 Maximum adhesion on crystalline PP (tr): May 134
 Metallizing system, Paasche (ma): Jul 84
 Tungsten wire, GE (nm): Sep 32
 New ABS grades for (nm): Apr 30
 Platable polyphenylene oxide goes commercial: May 61
 Rejects, liquid stripper for (nm): Sep 32
 PP platability test (pl): Mar 92

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Fluidized-bed dryer, Rockwell (ma): Jun 90
 Hopper dryer, FME desiccant-type compact (ma): Jun 90
 Incinerator-boiler powers heat/air conditioning (pl): Jul 76
 Incinerator, plastics no problem in Chicago (pl): Feb 92
 Oil separator, RP sheet in: Jul 30
 Plasticizer vapors cut 93.3%: Jun 48

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Polycarbonates (PC)

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 Dielectric curing cuts costs of cast parts (eng): Jul 60
 Garage doors of reinforced (pl): Feb 94
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 "Permanent" plasticizers: Jul 42
 Processing affects stability: Apr 115
 Reinforced, new peroxide for molding: Sep 96

Polyethylenes (PE)

Amphibious tricycle wheels: Jun 32
 Auto battery cases, PE/glass: Mar 69
 Automated planting, in (pl): Apr 22
 Capacity expansions, HDPE (pl): Oct 22
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 Flame-retarding rotocaster (nm): Mar 27
 HDPE discounts due to go (pl): Jun 16
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 Reinforced improved by gamma radiation (eng): Sep 74
 Self-extinguishing rotocaster (pl): Mar 27
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 Worn iron gas mains renewed with PE pipe (pl): Aug 96

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 Transparent rain-repellent coatings (tech): Feb 68

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